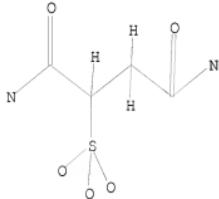


10/642,438

=>  
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L1       STRUCTURE UPLOADED

=> d  
L1 HAS NO ANSWERS  
L1           STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1 and py<2002  
REGISTRY INITIATED  
Substance data SEARCH and crossover from CAS REGISTRY in progress...  
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

SAMPLE SEARCH INITIATED 16:36:03 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED -           14 TO ITERATE

100.0% PROCESSED           14 ITERATIONS                                  4 ANSWERS  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:   ONLINE    \*\*COMPLETE\*\*  
                            BATCH     \*\*COMPLETE\*\*  
PROJECTED ITERATIONS:     56 TO     504  
PROJECTED ANSWERS:        4 TO      200

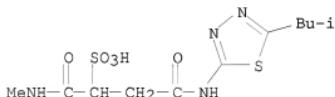
L2       4 SEA SSS SAM L1

L3       4 L2

22006548 PY<2002  
L4       1 L3 AND PY<2002

=> d ibib abs hitstr  
 THE ESTIMATED COST FOR THIS REQUEST IS 5.81 U.S. DOLLARS  
 DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y/N:y)

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2010 ACS on STN  
 ACCESSION NUMBER: 1985:160051 CAPLUS  
 DOCUMENT NUMBER: 102:160051  
 ORIGINAL REFERENCE NO.: 102:25017a,25020a  
 TITLE: Preparation of surfactants with demonstrated pharmacological activity  
 AUTHOR(S): Kabachnyi, V. I.; Chernykh, V. P.; Kabachnyi, G. I.; Sopel'nik, E. M.  
 CORPORATE SOURCE: Khark'k. Farm. Inst., Kharkov, USSR  
 SOURCE: Khimiko-Farmatsevticheskii Zhurnal (1985), 19(1), 43-6  
 CODEN: KHFZAN; ISSN: 0023-1134  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Russian  
 OTHER SOURCE(S): CASREACT 102:160051  
 AB Sixteen surfactant sulfosuccinic acid heterylamides were prepared and tested for pharmacol. activity and toxicity in mice. Several of the compds. exhibited anti-inflammatory activity comparable to that of butadiene, and several caused lowering of blood sugar levels comparable to those produced by butamide.  
 IT 95896-27-8P  
 RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses) (preparation and pharmacol. of)  
 RN 95896-27-8 CAPLUS  
 CN 2-Butanesulfonic acid, 1-(methylamino)-4-[(5-(2-methylpropyl)-1,3,4-thiadiazol-2-yl)amino]-1,4-dioxo-, sodium salt (1:1) (CA INDEX NAME)



● Na

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD  
 (1 CITINGS)

=> s 11 and py<2003  
 REGISTRY INITIATED  
 Substance data SEARCH and crossover from CAS REGISTRY in progress...  
 Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

SAMPLE SEARCH INITIATED 16:37:02 FILE 'REGISTRY'  
 SAMPLE SCREEN SEARCH COMPLETED - 14 TO ITERATE

100.0% PROCESSED 14 ITERATIONS 4 ANSWERS  
 SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
 BATCH \*\*COMPLETE\*\*  
 PROJECTED ITERATIONS: 56 TO 504  
 PROJECTED ANSWERS: 4 TO 200

L5 4 SEA SSS SAM L1

L6 4 L5

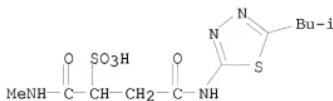
22998460 PY<2003  
 L7 1 L6 AND PY<2003

=> d ibib abs hitstr  
 THE ESTIMATED COST FOR THIS REQUEST IS 5.81 U.S. DOLLARS  
 DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L7 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2010 ACS on STN  
 ACCESSION NUMBER: 1985:160051 CAPLUS  
 DOCUMENT NUMBER: 102:160051  
 ORIGINAL REFERENCE NO.: 102:25017a,25020a  
 TITLE: Preparation of surfactants with demonstrated pharmacological activity  
 AUTHOR(S): Kabachnyi, V. I.; Chernykh, V. P.; Kabachnyi, G. I.; Sopel'nik, E. M.  
 CORPORATE SOURCE: Khar'k. Farm. Inst., Kharkov, USSR  
 SOURCE: Khimiko-Farmatsevticheskii Zhurnal (1985), 19(1), 43-6  
 CODEN: KHFZAN; ISSN: 0023-1134  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Russian  
 OTHER SOURCE(S): CASREACT 102:160051  
 AB Sixteen surfactant sulfosuccinic acid heterylamides were prepared and tested for pharmacol. activity and toxicity in mice. Several of the compds. exhibited anti-inflammatory activity comparable to that of butadiene, and several caused lowering of blood sugar levels comparable to those produced by butamide.  
 IT 95896-27-8P  
 RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses) (preparation and pharmacol. of)

10/923,271

RN 95896-27-8 CAPLUS  
CN 2-Butanesulfonic acid, 1-(methylamino)-4-[(5-(2-methylpropyl)-1,3,4-thiadiazol-2-yl)amino]-1,4-dioxo-, sodium salt (1:1) (CA INDEX NAME)



● Na

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD  
(1 CITINGS)

=> s 11 sss full  
REGISTRY INITIATED  
Substance data SEARCH and crossover from CAS REGISTRY in progress...  
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 191.05 U.S. DOLLARS  
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y  
FULL SEARCH INITIATED 16:39:34 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 268 TO ITERATE

100.0% PROCESSED 268 ITERATIONS 79 ANSWERS  
SEARCH TIME: 00.00.01

L8 79 SEA SSS FUL L1

L9 30 L8

=> s 19 and py<2002  
22006548 PY<2002  
L10 19 L9 AND PY<2002

=> s 19 and py<2003  
22998460 PY<2003  
L11 21 L9 AND PY<2003

=> s 111 and (imiadazolium or pyrrolidinium or ammonium)  
0 IMIADAZOLIUM  
1992 PYRROLIDINIUM  
471096 AMMONIUM

L12 2 L11 AND (IMIADAZOLIUM OR PYRROLIDINIUM OR AMMONIUM)

=> d 1-2 ibib abs hitstr  
 THE ESTIMATED COST FOR THIS REQUEST IS 11.62 U.S. DOLLARS  
 DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L12 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2010 ACS on STN  
 ACCESSION NUMBER: 1988:532575 CAPLUS  
 DOCUMENT NUMBER: 109:132575  
 ORIGINAL REFERENCE NO.: 109:22061a,22064a  
 TITLE: Surfactant mixtures as collectors in flotation of  
 nonsulfidic ores  
 INVENTOR(S): Koester, Rita; Von Rybinski, Wolfgang  
 PATENT ASSIGNEE(S): Henkel K.-G.A.A., Fed. Rep. Ger.  
 SOURCE: Ger. Offen., 8 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3641447	A1	19880609	DE 1986-3641447	19861204 <--
EP 270933	A2	19880615	EP 1987-117456	19871126 <--
EP 270933	A3	19891025		
EP 270933	B1	19920722		
R: AT, DE, ES, FR, GB, SE				
US 4790931	A	19881213	US 1987-127749	19871202 <--
FI 8705335	A	19880605	FI 1987-5335	19871203 <--
FI 83044	B	19910215		
FI 83044	C	19910527		
AU 8782066	A	19880609	AU 1987-82066	19871203 <--
AU 598069	B2	19900614		
CN 87107281	A	19880615	CN 1987-107281	19871203 <--
CN 1012420	B	19910424		
ZA 8709095	A	19880727	ZA 1987-9095	19871203 <--
BR 8706550	A	19880712	BR 1987-6550	19871204 <--
PRIORITY APPLN. INFO.:			DE 1986-3641447	A 19861204

## ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

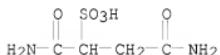
AB Mixts. of end group-terminated fatty alc. polyglycol ethers and anionic surfactants are used as a collector in flotation of nonsulfidic ores. Thus, scheelite ore powder (containing WO<sub>3</sub> 0.3, CaO 8.8, and SiO<sub>2</sub> 55.8%) having particle size <200 µm was processed using a 2:1 mixture of an anionic and a nonionic surfactants. The anionic component was Na salt of a sulfosuccinamide derived from tallow amine, and the nonionic component was a fatty alc. glycol Bu ether based on C12-18 fatty alc. containing 7 ethylene oxide groups. The depressant was water glass at 2000 g/ton ore, and the slurry was processed with conditioning for 10 min, agitation rate 2000 L/min, and flotation at pH .apprx.9.5. Conditioning time of the collector was 3 min. The ore concentrate contained WO<sub>3</sub> 13.3, CaO 32.9, and SiO<sub>2</sub> 26.9, vs. 10.6, 8.6, and 34.8% resp. for a conventional collector at .apprx.40% higher addition

IT 116453-32-8D, tallow alkyl derivs. 116692-36-5D,  
 Sodium sulfosuccinamide, tallow amine-derived

RL: PROC (Process)  
 (surfactants, anionic, for flotation collectors with end  
 group-terminated fatty alc. polyglycol ethers)

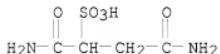
RN 116453-32-8 CAPLUS

CN 2-Butanesulfonic acid, 1,4-diamino-1,4-dioxo- (CA INDEX NAME)



RN 116692-36-5 CAPLUS

CN 2-Butanesulfonic acid, 1,4-diamino-1,4-dioxo-, sodium salt (1:1) (CA INDEX NAME)



● Na

OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD  
 (4 CITINGS)

L12 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2010 ACS on STN  
 ACCESSION NUMBER: 1984:439598 CAPLUS  
 DOCUMENT NUMBER: 101:39598  
 ORIGINAL REFERENCE NO.: 101:6195a,6198a  
 TITLE: Synthesis of ionomeric polyurethane latexes  
 AUTHOR(S): Sukhorukova, A. S.; Grekov, A. P.; Levchenko, N. I.;  
 Navrotskaya, R. P.  
 CORPORATE SOURCE: Inst. Khim. Vysokomol. Soedin., Kiev, USSR  
 SOURCE: Sint. Iskusstv. Lateksy: Poluch. Modif., Mater. Vses.  
 Lateksnoi Konf., 6th (1982), Meeting Date  
 1981, 115-20. Editor(s): Tikhomirov, G. S.  
 TsNIITEneftekhim: Moscow, USSR.  
 CODEN: 51NMA3

DOCUMENT TYPE: Conference  
 LANGUAGE: Russian

AB Ionomeric urethane rubber latexes were prepared by reaction of poly(propylene oxide)glycol or poly(tetramethylene oxide)glycol (I) with tolylene diisocyanate (II), followed by chain extension with alkylmalonic or thiopalkylsuccinic acid dihydrazides. The latexes formed transparent, elastic films, whose tensile strength and modulus of elasticity increased with increasing substituted dihydrazide concentration. Alternatively, cationic polyurethane latexes were prepared by reaction of I with II to form a prepolymer, which was dissolved in DMF-Me2CO mixture, followed by chain extension with aqueous dihydrazide solns. containing tertiary ammonium groups in the side chain. Anionic polyurethane latexes were prepared by using hydrophobic organic solvents, e.g., PhMe at the chain extension stage. The physicomech. properties and uses of the latexes were discussed.

IT 77986-50-6D, ionic derivs.

RL: USES (Uses)  
(rubber, latexes)

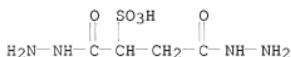
RN 77986-50-6 CAPLUS

CN Butanedioic acid, sulfo-, 1,4-dihydrazide, monosodium salt, polymer with  
1,3-diisocyanatomethylbenzene and  $\alpha$ -hydro- $\omega$ -hydroxypoly(oxy-  
1,4-butanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 66693-73-0

CMF C4 H10 N4 O5 S . Na



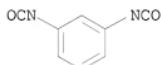
● Na

CM 2

CRN 26471-62-5

CMF C9 H6 N2 O2

CCI IDS



D1-Me

CM 3

CRN 25190-06-1

CMF (C4 H8 O)n H2 O

CCI PMS



10/923,271

=> s l11 and (imidazolium or pyrrolidinium or ammonium or pyridinium or pyridazinium or pyrimidinium or pyrazinium or pyrazolium or thiazolium or oxazolium)

THE ESTIMATED SEARCH COST FOR FILE 'CAPLUS' IS 23.10 U.S. DOLLARS  
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y

11068 IMIDAZOLIUM  
1992 PYRROLIDINIUM  
471096 AMMONIUM  
33569 PYRIDINIUM  
359 PYRIDAZINIUM  
840 PYRIMIDINIUM  
344 PYRAZINIUM  
525 PYRAZOLIUM  
2839 THIAZOLIUM  
464 OXAZOLIUM

L13 2 L11 AND (IMIDAZOLIUM OR PYRROLIDINIUM OR AMMONIUM OR PYRIDINIUM  
OR PYRIDAZINIUM OR PYRIMIDINIUM OR PYRAZINIUM OR PYRAZOLIUM OR  
THIAZOLIUM OR OXAZOLIUM)

=> d 1-2 ibib abs hitstr  
THE ESTIMATED COST FOR THIS REQUEST IS 11.62 U.S. DOLLARS  
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L13 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2010 ACS on STN  
ACCESSION NUMBER: 1988:532575 CAPLUS  
DOCUMENT NUMBER: 109:132575  
ORIGINAL REFERENCE NO.: 109:22061a,22064a  
TITLE: Surfactant mixtures as collectors in flotation of  
nonsulfidic ores  
INVENTOR(S): Koester, Rita; Von Rybinski, Wolfgang  
PATENT ASSIGNEE(S): Henkel K.-G.a.A., Fed. Rep. Ger.  
SOURCE: Ger. Offen., 8 pp.  
CODEN: GWXXBX  
DOCUMENT TYPE: Patent  
LANGUAGE: German  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3641447	A1	19880609	DE 1986-3641447	19861204 <--
EP 270933	A2	19880615	EP 1987-117456	19871126 <--
EP 270933	A3	19891025		
EP 270933	B1	19920722		
R: AT, DE, ES, FR, GB, SE				
US 4790931	A	19881213	US 1987-127749	19871202 <--
FI 8705335	A	19880605	FI 1987-5335	19871203 <--
FI 83044	B	19910215		
FI 83044	C	19910527		
AU 8782066	A	19880609	AU 1987-82066	19871203 <--
AU 598069	B2	19900614		
CN 87107281	A	19880615	CN 1987-107281	19871203 <--
CN 1012420	B	19910424		
ZA 8709095	A	19880727	ZA 1987-9095	19871203 <--
BR 8706550	A	19880712	BR 1987-6550	19871204 <--
PRIORITY APPLN. INFO.:			DE 1986-3641447	A 19861204

## ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB Mixts. of end group-terminated fatty alc. polyglycol ethers and anionic surfactants are used as a collector in flotation of nonsulfidic ores. Thus, scheelite ore powder (containing WO<sub>3</sub> 0.3, CaO 8.8, and SiO<sub>2</sub> 55.8%) having particle size <200 µm was processed using a 2:1 mixture of an anionic and a nonionic surfactants. The anionic component was Na salt of a sulfosuccinamide derived from tallow amine, and the nonionic component was a fatty alc. glycol Bu ether based on C<sub>12</sub>-18 fatty alc. containing 7 ethylene oxide groups. The depressant was water glass at 2000 g/ton ore, and the slurry was processed with conditioning for 10 min, agitation rate 2000 L/min, and flotation at pH .apprx.9.5. Conditioning time of the collector was 3 min. The ore concentrate contained WO<sub>3</sub> 13.3, CaO 32.9, and

SiO<sub>2</sub>

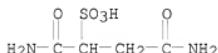
26.9, vs. 10.6, 8.6, and 34.8% resp. for a conventional collector at .apprx.40% higher addition

IT 116453-32-8D, tallow alkyl derivs. 116692-36-5D,  
Sodium sulfosuccinamide, tallow amine-derived

RL: PROC (Process)  
(surfactants, anionic, for flotation collectors with end group-terminated fatty alc. polyglycol ethers)

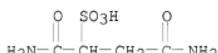
RN 116453-32-8 CAPLUS

CN 2-Butanesulfonic acid, 1,4-diamino-1,4-dioxo- (CA INDEX NAME)



RN 116692-36-5 CAPLUS

CN 2-Butanesulfonic acid, 1,4-diamino-1,4-dioxo-, sodium salt (1:1) (CA INDEX NAME)



● Na

OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD  
(4 CITINGS)

L13 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2010 ACS on STN  
 ACCESSION NUMBER: 1984:439598 CAPLUS  
 DOCUMENT NUMBER: 101:39598  
 ORIGINAL REFERENCE NO.: 101:6195a,6198a  
 TITLE: Synthesis of ionomeric polyurethane latexes  
 AUTHOR(S): Sukhorukova, A. S.; Grekov, A. P.; Levchenko, N. I.; Navrotskaya, R. P.  
 CORPORATE SOURCE: Inst. Khim. Vysokomol. Soedin., Kiev, USSR  
 SOURCE: Sint. Iskusstv. Lateksy: Poluch. Modif., Mater. Vses. Lateksnoi Konf., 6th (1982), Meeting Date

1981, 115-20. Editor(s): Tikhomirov, G. S.  
TsNIITEnesftekhim: Moscow, USSR.

DOCUMENT TYPE:  
LANGUAGE:

CODEN: 51NMA3  
Conference  
Russian

AB Ionomeric urethane rubber latexes were prepared by reaction of poly(propylene oxide)glycol or poly(tetramethylene oxide)glycol (I) with tolylene diisocyanate (II), followed by chain extension with alkylmalonic or thioalkylsuccinic acid dihydrazides. The latexes formed transparent, elastic films, whose tensile strength and modulus of elasticity increased with increasing substituted dihydrazide concentration. Alternatively, cationic polyurethane latexes were prepared by reaction of I with II to form a prepolymer, which was dissolved in DMF-Me<sub>2</sub>CO mixture, followed by chain extension with aqueous dihydrazide solns. containing tertiary ammonium groups in the side chain. Anionic polyurethane latexes were prepared by using hydrophobic organic solvents, e.g., PhMe at the chain extension stage. The physicomech. properties and uses of the latexes were discussed.

IT 77986-50-6, ionic derivs.

RL: USES (Uses)  
(rubber, latexes)

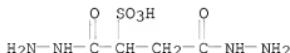
RN 77986-50-6 CAPLUS

CN Butanedioic acid, sulfo-, 1,4-dihydrazide, monosodium salt, polymer with 1,3-diisocyanatomethylbenzene and  $\alpha$ -hydro- $\omega$ -hydroxypoly(oxy-1,4-butanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 66693-73-0

CMF C4 H10 N4 O5 S . Na



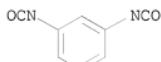
● Na

CM 2

CRN 26471-62-5

CMF C9 H6 N2 O2

CCI IDS

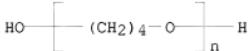


D1-Me

10/923, 271

CM 3

CRN 25190-06-1  
CMF (C<sub>4</sub> H<sub>8</sub> O)<sub>n</sub> H<sub>2</sub> O  
CCI PMS



=> s triazolium or imidazolinium or methylpyrrolidinium or isothiazolium or isoxazolium or oxaazolium or pyrrolium or thiophenium or phosphonium  
THE ESTIMATED SEARCH COST FOR FILE 'CAPLUS' IS 20.79 U.S. DOLLARS  
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y

1008 TRIAZOLIUM  
1047 IMIDAZOLINIUM  
846 METHYL PYRROLIDINIUM  
108 ISO THIAZOLIUM  
162 ISO XAZOLIUM  
0 OXA AZOLIUM  
159 PYRROLIUM  
212 THIOPHENIUM  
18683 PHOSPHONIUM

L14 22119 TRIAZOLIUM OR IMIDAZOLINIUM OR METHYL PYRROLIDINIUM OR ISO THIAZOLIUM OR ISO XAZOLIUM OR OXA AZOLIUM OR PYRROLIUM OR THIOPHENIUM OR PHOSPHONIUM

=> s l14 and l11  
L15 0 L14 AND L11